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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/660,773	09/12/2003		Kouichi Tada	100341-00046	5773	
4372	7590	05/02/2006		EXAMINER		
ARENT FO		JONES, CR	JONES, CRYSTAL L			
SUITE 400	ECTICUT AVE	ENUE, N.W.	ART UNIT	PAPER NUMBER		
WASHING	TON, DC 2003	36	2627			
				DATE MAILED: 05/02/2006	DATE MAILED: 05/02/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/660,773	TADA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Crystal Jones	2627					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 12 Se	eptember 2003.						
·=	,—						
, —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.	☑ Claim(s) <u>1 and 2</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>12 September 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a	)-(d) or (f).					
1.⊠ Certified copies of the priority documents	s have been received.						
2. Certified copies of the priority document	s have been received in Applicati	on No					
3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage					
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •						
* See the attached detailed Office action for a list	of the certified copies not receive	ed.					
Attachment(s)							
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date	<del></del>	Patent Application (PTO-152)					

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### **DETAILED ACTION**

# Specification

1. The disclosure is objected to because of the following informalities:

On page 2, line 9, "truck" should be changed to --track--.

On page 5, line 2, "dick" should be changed to --disk--.

Appropriate correction is required.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ogihara (U.S. Publication 2002/0075780) in view of Ogawa (U.S. Publication 2002/0105864).

Regarding claim 1, Ogihara discloses a disk kind identifying method that identifies a DVD-RW or a DVD+RW ([0032]), comprising steps of: (a) detecting a wobble signal recorded on a recording surface of a disk ([0034] and [0035]); (b) determining whether a cycle of the detected wobble signal is 186 times or 32 times as long as a data cycle ([0027] and [0028]; Wobble cycle is determined based on frequency; Groove wobble frequency for a DVD-RW is 140kHz and groove wobble frequency for a DVD+RW is 810kHz); and (c) identifying, when the cycle of the wobble

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signal is 186 times, a kind of said disk as the DVD-RW and, when the cycle of the wobble signal is 32 times, the kind of said disk as the DVD+RW ([0040]).

Ogihara fails to disclose using the standard clock frequency and standard groove wobble frequency of a DVD+RW disk.

Ogawa discloses the standard clock frequency of 26.16 MHz ([0145]) and standard groove wobble frequency of a DVD+RW disk as 818 kHz ([0145]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify disk-identifying device of Ogihara with the standard recording signals of Ogawa.

Motivation for the combination is to achieve a DVD-RW wobble signal cycle of 186 times the data cycle and a DVD+RW wobble signal cycle of 32 times the data cycle (186·140kHz=26.16MHz and 32·818kHz=26.16MHz).

Regarding claim 2, Ogihara discloses a disk apparatus (Fig. 1) which identifies a DVD-RW or a DVD+RW and executes recording and reproducing depending upon a kind of an identified disk, comprising: a detector (Fig. 1, element 118) for detecting a wobble signal recorded on a recording surface of said disk; a determiner (Fig. 3, elements 121 and 122; see also [0034] and [0035]) for determining whether a cycle of the wobble signal detected by said detector is 186 times or 32 times as long as a data cycle ([0027] and [0028]; Wobble cycle is determined based on frequency; Groove wobble frequency for a DVD-RW is 140kHz and groove wobble frequency for a DVD+RW is 810kHz), and an identifier (Fig. 1, element 105; see also [0040]) for identifying, when the cycle of the wobble signal is 186 times, the kind of said disk as the

DVD-RW and, when the cycle of the wobble signal is 32 times, the kind of said disk as the DVD+RW.

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Ogihara fails to disclose using the standard clock frequency and standard groove wobble frequency of a DVD+RW disk.

Ogawa discloses the standard clock frequency of 26.16 MHz ([0145]) and standard groove wobble frequency of a DVD+RW disk as 818 kHz ([0145]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify disk-identifying device of Ogihara with the standard recording signals of Ogawa.

Motivation for the combination is to achieve a DVD-RW wobble signal cycle of 186 times the data cycle and a DVD+RW wobble signal cycle of 32 times the data cycle (186·140kHz=26.16MHz and 32·818kHz=26.16MHz).

### Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. One et al. (U.S. Publication 2002/0150017).

Ono et al. disclose a disk discriminating method and apparatus that can discriminate among a plurality of optical disks using the extracted wobble signals but do not disclose identifying the disk based upon the detected wobble signal cycle as a multiple of the data cycle.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Crystal Jones whose telephone number is 571-272-2849. The examiner can normally be reached on Monday through Friday, 8:30 a.m. to 6 p.m..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on 571-272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CJ

WAYNEYOUNG SUPERVISORY PATENT EXAMINED

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